

### **Method to set up FWLite:**

1<sup>st</sup> terminal window:

Don't cd into anything and don't log into lxplus – begin in home directory.

```
cd CMSSW_7_4_5_FWLITE/  
cd CMSSW_7_4_5_FWLITE/src/  
cmsenv  
source analysis_env/  
source analysis_env/bin/activate  
ls -l `which python`  
python
```

**\*\*Now in python\*\***

```
import ROOT  
import numpy  
from numpy import random as rng  
rng.normal(0,1.0)  
**exit python** (This step was just to make sure the random  
function is working–call it a few times to make sure you are  
getting random numbers)
```

2<sup>nd</sup> terminal window:

**\*\*log into lxplus\*\***

```
cd work  
cd public
```

```
less  
/afs/cern.ch/user/s/sbruno/work/public/w/bootstrap_osx10a_a  
md64_gcc492.log
```

```
rm -rf w  
mkdir -p $VO_CMS_SW_DIR  
export SCRAM_ARCH=osx10a_amd64_gcc492  
curl -O http://cmsrep.cern.ch/cmssw/cms/bootstrap.sh  
mv bootstrap.sh $VO_CMS_SW_DIR  
ls $VO_CMS_SW_DIR
```

```
sh -x $VO_CMS_SW_DIR/bootstrap.sh setup -path  
$VO_CMS_SW_DIR -arch $SCRAM_ARCH
```

```
cd CMSSW_6_2_0_SLHC25_patch6/src/  
git status  
git cms-merge-topic PFCal-  
dev:hgc_fasttime_fromtdconset_SLHC26p2
```

```
git clone https://github.com/PFCal-dev/HGCanalysis.git
UserCode/HGCanalysis
```

```
scram b -j 9
```

```
(from HGCanalysis directory i.e:
/afs/cern.ch/user/s/sbruno/work/public/CMSSW_6_2_0_patch2/src/UserCode/HGCanalysis)
```

```
cmsRun test/runHGCR0IAalyzer_cfg.py
file:Events_22_100_106.root /tmp/sbruno/HGCR0IAalyzer.root
```

```
ls /tmp/sbruno/
(HGCR0IAalyzer.root is there)
```

```
ls -ltrh /tmp/sbruno/
(total 7.1M)
```

```
cp
~lgray/work/public/CMSSW_6_2_0_SLHC26_CMSSW_6_2_0_SLHC26_patch1/ CMSSW_6_2_0_SLHC26_patch2/
CMSSW_6_2_0_SLHC26_timing/
```

```
cp ~lgray/work/public/CMSSW_6_2_0_SLHC26_patch2/src/
```

```
cp
~lgray/work/public/CMSSW_6_2_0_SLHC26_patch2/src/UserCode/HGCanalysis/simpleHitAnalysis.py ./
```

```
emacs simpleHitAnalysis.py -nw
python -i simpleHitAnalysis.py
```

```
**exit python**
```

```
emacs simpleHitAnalysis.py -nw
python -i simpleHitAnalysis.py (analyzes the events)
```

```
emacs src/
emacs plugins/HGCR0IAalyzer.cc &
e python/
emacs python/hgcr0IAalyzer_cfg.py -nw
emacs plugins/HGCR0IAalyzer.cc -nw
scram b -j 9
```

```
emacs python/hgcr0IAalyzer_cfg.py -nw
```